

COMMERCIAL ITEM DESCRIPTION  
SPECIFICATION SHEET

HOLDER, ELECTRICAL CARD, WEDGE RETAINERS, 5 PIECE, FOR COLD PLATE APPLICATIONS,  
.250 X .270 INCH (6.35 x 6.86 mm) BODY SIZE, WITH CAPTIVE REAR WEDGE AND  
VISUAL LOCK INDICATION, SCREW ACTUATED

The General Services Administration has authorized the use of this  
commercial item description for all federal agencies.

The complete requirements for procuring electrical card holders described herein shall consist of this document and  
the latest issue in effect of [A-A-59789](#).

CLASSIFICATION/PART IDENTIFICATION NUMBER (PIN). This commercial item description (CID) specification  
sheet uses a classification system which is included in the PIN as shown in the following example (see [NOTES](#)).

<u>AA59789</u>	<u>/20</u>	<u>*</u>	<u>*</u>	<u>**</u>	<u>*</u>
CID number	Applicable CID sheet	Configuration (see <a href="#">table I</a> )	Finish (see <a href="#">table I</a> )	Length (see <a href="#">table II</a> )	Mounting (see <a href="#">table I</a> )

Example: AA59789/20LE40T is the PIN for an electroless nickel finished, 3.8 inch (96.5 mm) long card holder. The  
card holder also features two tapped mounting holes for use with 0-80 UNF 2B fasteners and a screw self-locking  
element for added resistance to loosening.

SALIENT CHARACTERISTICS.

Performance. Card holders shall hold the circuit card firmly in place providing high resistance to shock and vibration  
while providing maximum thermal transfer.

Interface and physical dimensions. The card holders supplied to this CID specification sheet shall be as specified  
herein and meet the general requirements specified in CID [A-A-59789](#).

Material. Unless otherwise specified herein, the card holder materials shall be as specified in [A-A-59789](#).

Actuating screw hex drive socket. The dimension for hex drive socket shall be .094 inch (2.38 mm) across flats for  
mounting options "M", "R", "S", "T", and "U".

Cold plate slot width. The recommended cold plate slot width to accommodate the circuit card assembly with  
attached card holder is .300 inch (7.62 mm) plus the thickness of the printed board of the circuit card assembly (see  
[A-A-59789](#)).

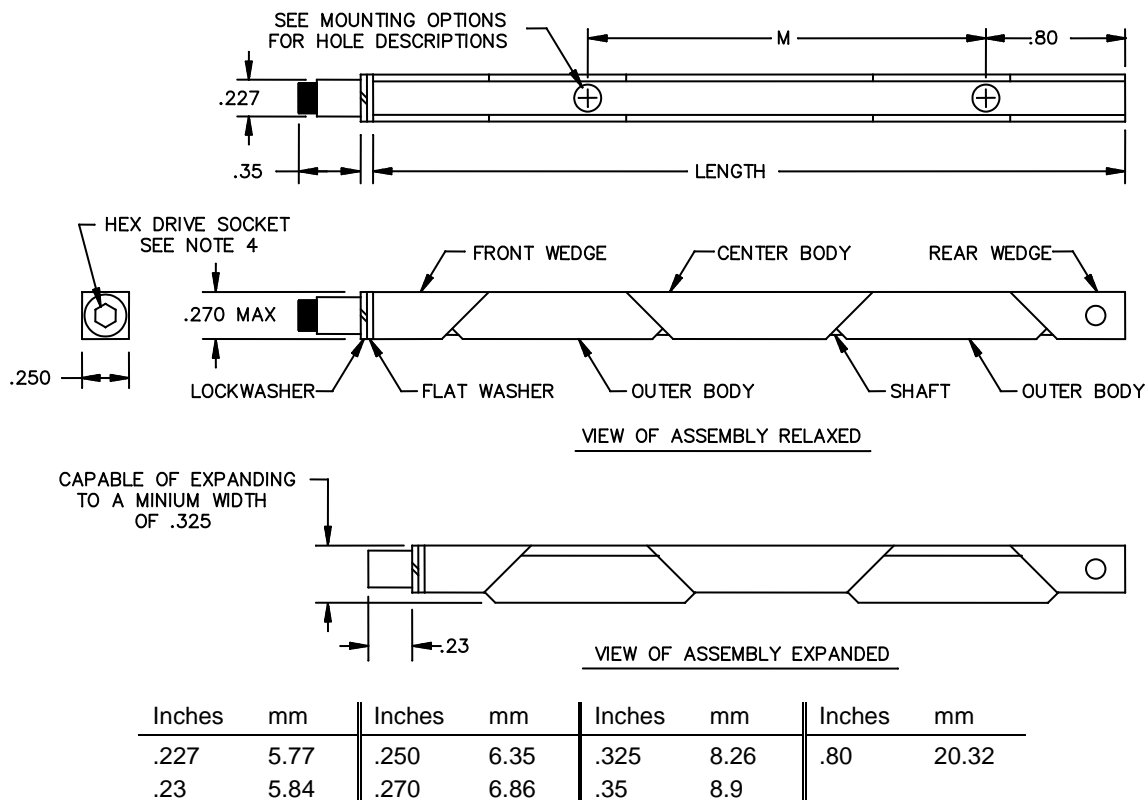
Installation torque. The recommended nominal installation torque is follows: 6 inch-pounds (0.7 N-m) for card  
holders of configuration "C" or "E" and 7 to 8 inch-pounds (0.8 to 0.9 N-m) for assemblies of configurations "L" or "D".

**Configuration.** The configuration of a card holder shall be as specified in [table I](#). The details of a particular configuration consist of those on figures 1 and 2, and may include those on figures 3 and 4.

**Finish.** The finish designator shall be as specified in [A-A-59789](#). The finishes available for this CID specification sheet are as follows: "B" (black anodize), "C" (gold chemical film), "E" (electroless nickel), "H" (hard black anodize) or "R" (clear chemical film).

TABLE I. Configurations.

Configuration	Applicable figures	Hardware options
C	1 and 2	No added options
L	1, 2 and 3	Screw self-locking element
E	1, 2 and 4	Additional mounting hole
D	1, 2, 3 and 4	Screw self-locking element and additional mounting hole



## NOTES:

1. Dimensions are in inches. Millimeter equivalents are given for general information only.
2. Unless otherwise specified, tolerances are  $\pm 0.02$  inch (0.51 mm) for two place decimals and  $\pm 0.010$  inch (0.25 mm) for three place decimals.
3. Tolerance for the hole spacing is  $\pm 0.005$  inch (0.13 mm).
4. The across flats dimension for hex drive socket shall be .094 inch (2.38 mm).

FIGURE 1. Relaxed and expanded dimensions.

Length, expanded, and relaxed dimensions. The length designator shall be as specified in [A-A-59789](#) and the lengths available for this CID specification sheet are listed in table II. The length, expanded, and relaxed dimensions shall be as specified on [figure 1](#).

Visual lock indicator (see figure 2). Card holders shall have a visual indicator to show when the card holder is in its relaxed (unlocked) state. When the card holder is in the unlocked (relaxed) state, the end of the actuating screw shall display a red band on the side of the screw. When the actuating screw on the card holder has been tightened (assembly expanded) so that the assembly is in the locked position, this red band shall be concealed.

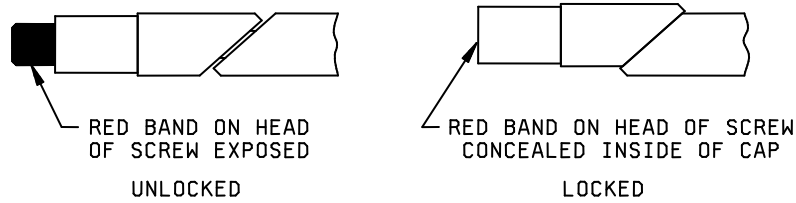


FIGURE 2. Visual lock indicator.

TABLE II. Additional assembly dimensions (see figure 1). 1/

PIN length designator	Dimension "length" $\pm.02$ (0.5 mm)	Dimension "M" $\pm.005$ (0.13 mm)	Dimension "M/2" $\pm.005$ (0.13mm)
30	2.80 (71.1)	.90 (22.9)	.45 (11.4)
40	3.80 (96.5)	1.90 (48.3)	.95 (24.1)
50	4.80 (121.9)	2.90 (73.7)	1.45 (36.8)

1/ Dimensions are in inches. Millimeters, in parenthesis, are given for information only.

Mounting. The mounting designators shall be as specified in [A-A-59789](#). The mounting options available for this CID specification sheet are as follows: "M" (tapped metric M2.5 x 0.45 holes), "R" (rivet mount holes with counterbore and countersink), "S" (tapped 2–56 holes), "T" (tapped 0–80 holes), or "U" (tapped metric M2 x 0.4 holes). See [figure 1](#) for mounting hole spacing requirements.

Rivet mounting holes. The holes used for rivet mounting shall be .068/.073 inch (1.73/1.85 mm) diameter, countersunk 100 degrees by .060 inch (1.52 mm) deep.

Rivets. This card holder uses rivet type A as specified in [A-A-59789](#) when rivet mounting is used.

Configuration hardware options. Card holders can have the following options. See [table I](#) for the correct PIN configuration identifier.

Screw self-locking element (see figure 3). The use of a screw self-locking element will provide prevailing torque for resistance to loosening from shock vibration. Card holders requiring a screw self-locking element shall include configuration identifier "L" in the PIN (see [classification](#) and [notes](#)).

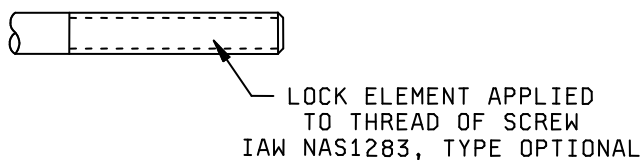


FIGURE 3. Screw self-locking element details.

Additional mounting hole (see figure 4). Card holders requiring an additional mounting hole shall include configuration identifier "E" in the PIN (see [classification](#) and [notes](#)).

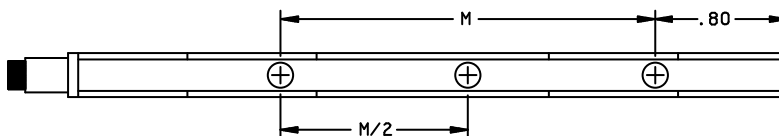


FIGURE 4. Additional mounting hole details.

Screw self-locking element and additional mounting hole. Card holders requiring a screw self-locking element and an additional mounting hole shall include configuration identifier "D" in the PIN (see [classification](#) and [notes](#)).

#### NOTES.

PIN. The PIN should be used for Government purposes to buy commercial products to this CID specification sheet. See the classification section for PIN format example.

#### Source of documents.

##### Commercial Item Description

[A-A-59789](#) – Holder, Electrical Card, Wedge Retainers, 5 Piece, For Cold Plate Applications, General Requirements For.

(Copies of these documents are available online at <https://assist.daps.dla.mil/quicksearch/> or <https://assist.daps.dla.mil/> or from the Standardization Document Order Desk, 700 Robbins Avenue, Building 4D, Philadelphia, PA 19111-5094.)

##### Other Publications

##### AEROSPACE INDUSTRIES ASSOCIATION (AIA)

AIA/NAS 1283 – Fasteners, Male Threaded, Self-locking.

(Application for copies should be addressed to the Aerospace Industries Association, 1250 Eye Street, NW, Suite 1200, Washington, DC 20005-3924 or at URL: <http://www.aia-aerospace.org>.)

Ordering data. Ordering data shall be as specified in [A-A-59789](#).

Commercial products. As part of the market analysis and research effort, this CID specification sheet was coordinated with the following manufacturers of commercial products. At the time of CID specification sheet preparation and coordination, these manufacturers were known to have commercial products that would meet the requirements of this CID specification sheet. (NOTE: This information should not be considered as a list of approved manufacturers or be used to restrict procurement to only the manufacturers shown.)

<u>Manufacturer CAGE</u>	<u>Manufacturer name and address</u>	<u>Manufacturer contact information</u>
5BG68	Card Locks Unlimited, Inc. 2310 E. Orangethorpe Avenue Anaheim, CA 92806-1231	Telephone: (714) 738-6194 Facsimile: (714) 446-0119 E-mail: <a href="mailto:sales@clumfg.com">sales@clumfg.com</a> URL: <a href="http://www.clumfg.com">www.clumfg.com</a>
52094	Calmark – A Division of Pentair Electronic Packaging 7238 Trade Street San Diego, CA 92121-3410	Telephone: (858) 740-2400 Toll Free: (800) 854-7086 Facsimile: (858) 740-2430 Electronic mail: <a href="mailto:sales@calmark.com">sales@calmark.com</a> URL: <a href="http://www.calmark.com">www.calmark.com</a>

Part number supersession data. This CID specification sheet PINs supersedes the following manufacturer's part numbers as shown in [table III](#) and on DESC Drawing 89024 ([table IV](#)) as shown. The CID PINs listed in [table III](#) are only for length designator "50". See [table V](#) for CID PIN construction using other available lengths for this CID specification sheet. This information is being provided to assist in reducing proliferation in the Government inventory system.

TABLE III. Commercial part number supersession data.

PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 52094
CB50M	5260VBA-4.80TM2.5	CB50M	VA260-4.80TM2.5
CB50R	5260VBA-4.80H	CB50R	VA260-4.80H
CB50S	5260VBA-4.80T2	CB50S	VA260-4.80T2
CB50T	5260VBA-4.80T0	CB50T	VA260-4.80T0
CB50U	5260VBA-4.80TM2	CB50U	VA260-4.80TM2
LB50M	5260VBA-4.80TM2.5L	LB50M	VA260-4.80TM2.5L
LB50R	5260VBA-4.80HL	LB50R	VA260-4.80HL
LB50S	5260VBA-4.80T2L	LB50S	VA260-4.80T2L
LB50T	5260VBA-4.80T0L	LB50T	VA260-4.80T0L
LB50U	5260VBA-4.80TM2L	LB50U	VA260-4.80TM2L
EB50M	5260VBA-4.80ETM2.5	EB50M	VA260-4.80ETM2.5
EB50R	S260VBA-4.80EH	EB50R	VA260-4.80EH
EB50S	5260VBA-4.80ET2	EB50S	VA260-4.80ET2
EB50T	5260VBA-4.80ET0	EB50T	VA260-4.80ET0
EB50U	5260VBA-4.80ETM2	EB50U	VA260-4.80ETM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/20	Vendor similar designator or type part number 1/ CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number 1/ CAGE 52094
DB50M	5260VBA-4.80ETM2.5L	DB50M	VA260-4.80ETM2.5L
DB50R	5260VBA-4.80EHL	DB50R	VA260-4.80EHL
DB50S	5260VBA-4.80ET2L	DB50S	VA260-4.80ET2L
DB50T	5260VBA-4.80ET0L	DB50T	VA260-4.80ET0L
DB50U	5260VBA-4.80ETM2L	DB50U	VA260-4.80ETM2L
CC50M	5260VCG-4.80TM2.5	CC50M	V260-4.80TM2.5
CC50R	5260VCG-4.80H	CC50R	V260-4.80H
CC50S	5260VCG-4.80T2	CC50S	V260-4.80T2
CC50T	5260VCG-4.80T0	CC50T	V260-4.80T0
CC50U	5260VCG-4.80TM2	CC50U	V260-4.80TM2
LC50M	5260VCG-4.80TM2.5L	LC50M	V260-4.80TM2.5L
LC50R	5260VCG-4.80HL	LC50R	V260-4.80HL
LC50S	5260VCG-4.80T2L	LC50S	V260-4.80T2L
LC50T	5260VCG-4.80T0L	LC50T	V260-4.80T0L
LC50U	5260VCG-4.80TM2L	LC50U	V260-4.80TM2L
EC50M	5260VCG-4.80ETM2.5	EC50M	V260-4.80ETM2.5
EC50R	5260VCG-4.80EH	EC50R	V260-4.80EH
EC50S	5260VCG-4.80ET2	EC50S	V260-4.80ET2
EC50T	5260VCG-4.80ET0	EC50T	V260-4.80ET0
EC50U	5260VCG-4.80ETM2	EC50U	V260-4.80ETM2
DC50M	5260VCG-4.80ETM2.5L	DC50M	V260-4.80ETM2.5L
DC50R	5260VCG-4.80EHL	DC50R	V260-4.80EHL
DC50S	5260VCG-4.80ET2L	DC50S	V260-4.80ET2L
DC50T	5260VCG-4.80ET0L	DC50T	V260-4.80ET0L
DC50U	5260VCG-4.80ETM2L	DC50U	V260-4.80ETM2L
CE50M	5260VEN-4.80TM2.5	CE50M	VEN260-4.80TM2.5
CE50R	5260VEN-4.80H	CE50R	VEN260-4.80H
CE50S	5260VEN-4.80T2	CE50S	VEN260-4.80T2
CE50T	5260VEN-4.80T0	CE50T	VEN260-4.80T0
CE50U	5260VEN-4.80TM2	CE50U	VEN260-4.80TM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/20	Vendor similar designator or type part number 1/ CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number 1/ CAGE 52094
LE50M	5260VEN-4.80TM2.5L	LE50M	VEN260-4.80TM2.5L
LE50R	5260VEN-4.80HL	LE50R	VEN260-4.80HL
LE50S	5260VEN-4.80T2L	LE50S	VEN260-4.80T2L
LE50T	5260VEN-4.80T0L	LE50T	VEN260-4.80T0L
LE50U	5260VEN-4.80TM2L	LE50U	VEN260-4.80TM2L
EE50M	5260VEN-4.80ETM2.5	EE50M	VEN260-4.80ETM2.5
EE50R	5260VEN-4.80EHL	EE50R	VEN260-4.80EH
EE50S	5260VEN-4.80ET2	EE50S	VEN260-4.80ET2
EE50T	5260VEN-4.80ET0	EE50T	VEN260-4.80ET0
EE50U	5260VEN-4.80ETM2	EE50U	VEN260-4.80ETM2
DE50M	5260VEN-4.80ETM2.5L	DE50M	VEN260-4.80ETM2.5L
DE50R	5260VEN-4.80EHL	DE50R	VEN260-4.80EHL
DE50S	5260VEN-4.80ET2L	DE50S	VEN260-4.80ET2L
DE50T	5260VEN-4.80ET0L	DE50T	VEN260-4.80ET0L
DE50U	5260VEN-4.80ETM2L	DE50U	VEN260-4.80ETM2L
CH50M	5260VBH-4.80TM2.5	CH50M	VHA260-4.80TM2.5
CH50R	5260VBH-4.80H	CH50R	VHA260-4.80H
CH50S	5260VBH-4.80T2	CH50S	VHA260-4.80T2
CH50T	5260VBH-4.80T0	CH50T	VHA260-4.80T0
CH50U	5260VBH-4.80TM2	CH50U	VHA260-4.80TM2
LH50M	5260VBH-4.80TM2.5L	LH50M	VHA260-4.80TM2.5L
LH50R	5260VBH-4.80HL	LH50R	VHA260-4.80HL
LH50S	5260VBH-4.80T2L	LH50S	VHA260-4.80T2L
LH50T	5260VBH-4.80T0L	LH50T	VHA260-4.80T0L
LH50U	5260VBH-4.80TM2L	LH50U	VHA260-4.80TM2L
EH50M	5260VBH-4.80ETM2.5	EH50M	VHA260-4.80ETM2.5
EH50R	5260VBH-4.80EH	EH50R	VHA260-4.80EH
EH50S	5260VBH-4.80ET2	EH50S	VHA260-4.80ET2
EH50T	5260VBH-4.80ET0	EH50T	VHA260-4.80ET0
EH50U	5260VBH-4.80ETM2	EH50U	VHA260-4.80ETM2

See footnote at end of table.

TABLE III. Commercial part number supersession data – Continued.

PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 5BG68	PIN designator AA59789/20	Vendor similar designator or type part number <sup>1/</sup> CAGE 52094
DH50M	5260VBH-4.80ETM2.5L	DH50M	VHA260-4.80ETM2.5L
DH50R	5260VBH-4.80EHL	DH50R	VHA260-4.80EHL
DH50S	5260VBH-4.80ET2L	DH50S	VHA260-4.80ET2L
DH50T	5260VBH-4.80ET0L	DH50T	VHA260-4.80ET0L
DH50U	5260VBH-4.80ETM2L	DH50U	VHA260-4.80ETM2L
CR50M	5260VCC-4.80TM2.5	CR50M	VR260-4.80TM2.5
CR50R	5260VCC-4.80H	CR50R	VR260-4.80H
CR50S	5260VCC-4.80T2	CR50S	VR260-4.80T2
CR50T	5260VCC-4.80T0	CR50T	VR260-4.80T0
CR50U	5260VCC-4.80TM2	CR50U	VR260-4.80TM2
LR50M	5260VCC-4.80TM2.5L	LR50M	VR260-4.80TM2.5L
LR50R	5260VCC-4.80HL	LR50R	VR260-4.80HL
LR50S	5260VCC-4.80T2L	LR50S	VR260-4.80T2L
LR50T	5260VCC-4.80T0L	LR50T	VR260-4.80T0L
LR50U	5260VCC-4.80TM2L	LR50U	VR260-4.80TM2L
ER50M	5260VCC-4.80ETM2.5	ER50M	VR260-4.80ETM2.5
ER50R	5260VCC-4.80EH	ER50R	VR260-4.80EH
ER50S	5260VCC-4.80ET2	ER50S	VR260-4.80ET2
ER50T	5260VCC-4.80ET0	ER50T	VR260-4.80ET0
ER50U	5260VCC-4.80ETM2	ER50U	VR260-4.80ETM2
DR50M	5260VCC-4.80ETM2.5L	DR50M	VR260-4.80ETM2.5L
DR50R	5260VCC-4.80EHL	DR50R	VR260-4.80EHL
DR50S	5260VCC-4.80ET2L	DR50S	VR260-4.80ET2L
DR50T	5260VCC-4.80ET0L	DR50T	VR260-4.80ET0L
DR50U	5260VCC-4.80ETM2L	DR50U	VR260-4.80ETM2L

<sup>1/</sup> The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).

TABLE IV. DESC Drawing PIN supersession information.

Superseded (old) PIN in accordance with DESC Drawing 89024	Superseding (new) CID PIN	Superseded (old) PIN in accordance with DESC Drawing 89024	Superseding (new) CID PIN
89024-11BH	AA59789/20CB30R	89024-11CH	AA59789/20CC30R
89024-14BH	AA59789/20CB40R	89024-14CH	AA59789/20CC40R
89024-17BH	AA59789/20CB50R	89024-17CH	AA59789/20CC50R
89024-11BS	AA59789/20CB30T	89024-11CS	AA59789/20CC30T
89024-14BS	AA59789/20CB40T	89024-14CS	AA59789/20CC40T
89024-17BS	AA59789/20CB50T	89024-17CS	AA59789/20CC50T
89024-11BT	AA59789/20CB30S	89024-11CT	AA59789/20CC30S
89024-14BT	AA59789/20CB40S	89024-14CT	AA59789/20CC40S
89024-17BT	AA59789/20CB50S	89024-17CT	AA59789/20CC50S

TABLE V. Example of PIN with available length designators.

PIN designator AA59789/20	Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 5BG68	Vendor similar designator or type part number <u>1/</u> <u>2/</u> CAGE 52094
LE30T	5260VEN-2.80T0L	VEN260-2.80T0
LE40T	5260VEN-3.80T0L	VEN260-3.80T0
LE50T	5260VEN-4.80T0L	VEN260-4.80T0

- 1/ The manufacturer's part number shall not be used for procurement to the requirements of this CID specification sheet. At the time of preparation of this CID specification sheet, the aforementioned commercial products were reviewed and could be replaced by the CID PIN shown. For actual part marking requirements, see the marking paragraph in [A-A-59789](#).
- 2/ Other lengths are available on request.

MILITARY INTERESTS:

Custodians:

Army – CR  
Navy – EC  
Air Force – 85  
DLA – CC

Review activity:

Air Force – 99

CIVIL AGENCY COORDINATING ACTIVITY:

GSA – FAS

Preparing activity:

DLA – CC

Project 5998–2010–035

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <https://assist.daps.dla.mil/>.